

From: [Vega, Luis](#)
To: [Vincent Malott/R6/USEPA/US@EPA](#)
Subject: FW: Passive Soil Gas Device results
Date: 12/06/2012 02:47 PM
Attachments: [Circle Ct - Vista Geosc EDD - 12224-1212002-data.xls](#)
[Circle Ct - Vista Geosc Final Report 12224 1212002 PSGD rev1.pdf](#)

Hi Vince

Report and data (& some interpretation) for the Vista Geoscience PSGs.

Thanks

Luis Vega
EA Engineering, Science, and Technology, Inc.

From: John Fontana [<mailto:jfontana@vistageoscience.com>]
Sent: Wednesday, December 05, 2012 7:08 PM
To: Vega, Luis
Cc: 'Roger Bain'
Subject: RE: Passive Soil Gas Device results

Luis,

Please let us know when we can see the compared data.

Just an FYI on the TIC Roger noticed in your samples. I remember some information on chlorinated acetylene being discussed as the responsible breakdown product for what people observe as "DCE stall" with no Vinyl Chloride or Ethene production, but in reality, the DCE is breaking down to the chlorinated acetylene, then rapidly to acetylene and chloride via an abiotic process, catalyzed by ferrous iron. I wonder if that is what you might have going on there.

John Fontana, PG, President
jfontana@VistaGeoScience.com
[John Fontana's LinkedIn Profile](#)
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From: Roger Bain [<mailto:rbain@vistageoscience.com>]
Sent: Wednesday, December 05, 2012 6:02 PM

To: lvega@eaest.com
Cc: John Fontana
Subject: Passive Soil Gas Device results

Hi Luis,

The attached report contains the results for the Passive Soil Gas Device (PSGD) samples we received on 11/20/12. PSGD samples E4, E3.5, and E3.5DUP have a common TIC, Dichloroethyne, or Dichloro-acetylene. The Dichloroethyne is a reasonable breakdown product of Trichloroethene. The elimination of HCL across the double bond of Trichloroethene would yield Dichloroethyne. If you have any questions please contact us.

Thank you,

Roger

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